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For: METHODS FOR CREATING A COMPOUND LIBRARY

49. (NEW) The method of claim 46 wherein the concentration of each test compound in each sample reservoir is no greater than about 100 μ M.
50. (NEW) The method of claim 46 wherein each test compound has a solubility in deuterated water of at least about 1 mM at room temperature.
51. (NEW) The method of claim 46 wherein collecting a WaterLOGSY nuclear magnetic resonance spectrum comprises collecting a 1D WaterLOGSY nuclear magnetic resonance spectrum.
52. (NEW) The method of claim 46 wherein the mixture of test compounds comprises at least about 3 compounds, each having at least one distinguishable resonance in a 1D NMR spectrum of the mixture.
53. (NEW) The method of claim 46 wherein the ratio of target molecule to each test compound in each sample reservoir is about 100:1 to about 10:1.
54. (NEW) The method of claim 46 wherein the dissociation constant of the test compound that binds to the target molecule is at least about 100 μ M.
55. (NEW) The method of claim 46 wherein the target molecule is a protein.
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